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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/052,119	01/17/2002	Rangamani Sundar	WIN00900 03	1676
22917	7590	06/14/2007		
MOTOROLA, INC. 1303 EAST ALGONQUIN ROAD IL01/3RD SCHAUMBURG, IL 60196			EXAMINER MEHRPOUR, NAGHMEH	
			ART UNIT 2617	PAPER NUMBER
			NOTIFICATION DATE 06/14/2007	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

Docketing.Schaumburg@motorola.com
APT099@motorola.com

Office Action Summary	Application No. 10/052,119	Applicant(s) SUNDAR ET AL.	
	Examiner Naghmeh Mehrpour	Art Unit 2617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 April 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. **Claims 1-4**, are rejected under 35 U.S.C. 102(e) as being anticipated by Kallio et al. (US Publication 2002/0147008 A1).

Regarding claim 1, Kallio teaches a method of providing a wireless wide area network (WWAN) service to a mobile station serviced in a wireless local area network (WLAN), comprising:

provisioning a MSC to serve the WLAN (0010);

the MSC that serves the WLAN receiving WWAN messages that provide the WWAN service (0010);

the MSC forming SIP messages using the received WWAN messages (0012, 0033);

the MSC delivering the SIP messages to the WLAN via an IP link (0012,0033);

the WLAN delivering the SIP messages to the mobile station via a WLAN air interface protocol (0033).

Art Unit: 2617

Regarding claim 2, Kallio teaches a method of claim 1 wherein the WWAN service is a Short Message Service (SMS) and wherein the WWAN includes a SMS Center for delivering SMS messages on the WWAN and wherein the MSC forms SIP Invite messages with SMS payload and delivers said SIP Invite messages to the WLAN (0033).

Regarding claim 3, Kallio teaches a method of claim 1 wherein the WWAN service is a Message Wait Notification (MWN) and wherein the WWAN provides MWN messages to the WWAN and wherein the MSC forms SIP Invite messages with MWN information and delivers said SIP Invite messages to the WLAN (0033, 0052).

Regarding claim 4, Kallio teaches a method of claim 1 wherein the MSC that services the WLAN and an MSC servicing the WWAN cooperate to provide TFO call services between an mobile station operating in the WLAN and a mobile station operating in the WWAN (0026, 0027, 0036, 0050).

Response to Arguments

3. Applicant's arguments filed 4/5/07 have been fully considered but they are not persuasive.

In response to the applicant's argument that "*Kallio does not disclose provisioning a MSC to serve the WLAN the MSC that serves the WLAN receiving WWAN messages that provide the WWAN service*", and there is no MSC that serves the WLAN".

The Examiner likes to mention that the references made herein are done so for the convenience of the applicant. They are in no way meant to limit the reference. The reference MUST be considered in its entirety.

In addition *Examiner asserts that Kallio teaches* a network architecture for Wireless Intranet Office (WIO) applications including a local radio network such as a wireless local area network (WLAN) which comprises a **Wireless Mobile Center (WMC) arranged to serve as a WLAN access point (functions as MSC)**; a GSM network which comprises a Mobile Station (MS) in a form of a dual-mode cellular phone to access both WLAN and GSM radio technologies, a Base Station (BS) arranged to convert a radio signal from the Mobile Station (MS) for communication, a Mobile Switching Center (MSC) arranged to establish call connection; and a Handover Module implemented in either the Mobile Station (MS) or the Wireless Mobile Center (WMC) for providing seamless mobility between the GSM network and the wireless LAN, when the Mobile Station (MS) roams between the GSM network and the wireless LAN. During an IDLE mode when the Mobile Station (MS) roams from the GSM network to the wireless LAN, the Mobile Station (MS) may be configured to select a WLAN radio, attempt a location update via the wireless LAN, and a new location of the Mobile Station (MS) may be updated at the Mobile Switching Center (MSC) of the GSM network. During an ACTIVE handover mode when the Mobile Station (MS) initiates a handover from the GSM network to the wireless LAN, the Mobile Station (MS) may be configured to measure GSM neighbor cells, report a WLAN cell as an ordinary GSM cell, send measurement reports to the Base Station (BS), where the handover

algorithm generates a handover request to the Mobile Switching Center (MSC) of the GSM network. The Mobile Station (MS) may then drop GSM neighbor cells from the list and send only "WLAN cell" information and/or drop the level of the measurement value of the serving cell so that the handover algorithm in the Base Station (BS) is "forced" to make a handover. In this case the GSM network serves as a source and the wireless LAN serves as a target. Additionally, the handover algorithm in the Base Station (BS) may also contain special handover criteria for the played GSM cell upon detection from the measurement reports. For example, the Handover Module may request a handover when the played GSM cell rx-level (transmission level) exceeds a certain threshold, even though the serving cell rx-level is good and there are many good GSM neighbor cells. Another example is that the number (loss or rapid loss) of GSM neighbor cells from the measurement reports may be used as a criterion for the handover initiation towards the wireless LAN. This way the Mobile Station (MS) can remote command the time when the Base Station (BS) to start requesting the handover. For instance, the Mobile Station (MS) may drop off the GSM neighbor cells for a period of four measurement reports. At the same time, the Base Station (BS) may detect the number of GSM neighbor cells, when the played GSM cell is reported and the played GSM cell rx-level exceeds the threshold. After the four GSM measurement reports are received and the played GSM cell rx-level still exceeds the threshold, the handover is requested. During an IDLE mode when the Mobile Station (MS) roams from said wireless LAN to said GSM network, the Wireless Mobile Center (WMC) may be

configured to inform GSM neighbor cells, and the Mobile Station (MS) may be configured to select a GSM radio and attempt a location update via the GSM network, and a new location of the Mobile Station (MS) may be updated at the Mobile Switching Center (MSC). During an ACTIVE handover mode when the Mobile Station (MS) initiates a handover from the wireless LAN to the GSM network, the Mobile Station (MS) may be configured to measure GSM neighbor cells, send measurement reports to the **Wireless Mobile Center (WMC) of the wireless LAN**, where the handover algorithm generates a handover request to the Mobile Switching Center (MSC), via the Wireless Mobile Center (WMC) of the wireless LAN. In this case the wireless LAN serves as a source and the GSM network serves as a target.

Therefore Kallio does teach the limitation of the claims.

Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

5. Any responses to this action should be mailed to:

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Naghmeh Mehrpour whose telephone number is 571-272-7913. The examiner can normally be reached on 8:00- 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nick Corsaro be reached (571) 272-7876.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

NM

June 7, 2007



NAGHMEH MEHRPOUR
PRIMARY EXAMINER